

ABSTRACT OF THE DISCLOSURE

An encapsulated stator assembly for use in stator-driven devices is disclosed. The encapsulated stator assembly includes a stator and a covering portion that envelops the stator. The purpose of the covering portion is multi-fold: first, the covering portion serves as a means for mounting and securing the stator, such as within the outer housing of an x-ray tube. Second, the covering portion is thermally conductive to enable heat produced by the stator during operation to be dissipated to the outer housing of the x-ray tube thereof. Additionally, the covering portion can include an x-ray absorbent material to reduce x-ray emission from the x-ray tube. Though x-ray tubes represent one advantageous application, the encapsulated stator assembly of the present invention can be used in a variety of motor and stator-driven devices. The encapsulated stator assembly is especially well suited for use in dirty or dusty environments.

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